

| Ref # | Hits | Search Query | DBs | Default Operator | Plurals | Time Stamp |
|-------|------|---|-----------------|------------------|---------|------------------|
| S1 | 0 | expans near frequenc\$5 same bandwidth\$2 and sampl\$5 same frequenc%5 | US-PGPUB; USPAT | OR | OFF | 2004/07/02 13:35 |
| S2 | 40 | expans near frequenc\$5 same bandwidth\$2 and sampl\$5 same frequenc\$5 and low\$4pass same filter\$5 | US-PGPUB; USPAT | OR | OFF | 2004/07/02 13:35 |
| S3 | 26 | expans near frequenc\$5 same bandwidth\$2 and sampl\$5 same frequenc\$5 and low\$4pass same filter\$5 and cut\$4off same frequenc\$5 | US-PGPUB; USPAT | OR | OFF | 2004/07/02 13:36 |
| S4 | 26 | expans near frequenc\$5 same bandwidth\$2 and sampl\$5 same frequenc\$5 and low\$4pass same filter\$5 and cut\$4off same frequenc\$5 and tim\$4 | US-PGPUB; USPAT | OR | OFF | 2004/07/02 13:36 |
| S5 | 18 | expans near frequenc\$5 same bandwidth\$2 and sampl\$5 same frequenc\$5 and low\$4pass same filter\$5 and cut\$4off same frequenc\$5 and tim\$4 and waveform\$4 | US-PGPUB; USPAT | OR | OFF | 2004/07/02 13:37 |
| S6 | 17 | expans near frequenc\$5 same bandwidth\$2 and sampl\$5 same frequenc\$5 and low\$4pass same filter\$5 and cut\$4off same frequenc\$5 and tim\$4 and waveform\$4 and peak\$4 | US-PGPUB; USPAT | OR | OFF | 2004/07/02 13:37 |
| S7 | 1 | expans near frequenc\$5 same bandwidth\$2 and sampl\$5 same frequenc\$5 and low\$4pass same filter\$5 and cut\$4off same frequenc\$5 and tim\$4 and waveform\$4 and peak\$4 and calculat\$6 same differen\$4 | US-PGPUB; USPAT | OR | OFF | 2004/07/02 13:37 |
| S8 | 1 | expans near frequenc\$5 same bandwidth\$2 and sampl\$5 same frequenc\$5 and low\$4pass same filter\$5 and cut\$4off same frequenc\$5 and tim\$4 and waveform\$4 and peak\$4 and calculat\$6 same differen\$4 and weigh\$4 | US-PGPUB; USPAT | OR | OFF | 2004/07/02 13:39 |

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|-----|----|--|-----------------|----|-----|------------------|
| S9 | 16 | expans near frequenc\$5 same bandwidth\$2 and sampl\$5 same frequenc\$5 and low\$4pass same filter\$5 and cut\$4off same frequenc\$5 and tim\$4 and waveform\$4 and peak\$4 and weigh\$4 | US-PGPUB; USPAT | OR | OFF | 2004/07/02 13:39 |
| S10 | 1 | expans near frequenc\$5 same bandwidth\$2 and sampl\$5 same frequenc\$5 and low\$4pass same filter\$5 and cut\$4off same frequenc\$5 and tim\$4 and waveform\$4 and peak\$4 and weigh\$4 and differen\$5 and calculat\$5 | US-PGPUB; USPAT | OR | OFF | 2004/07/02 13:40 |
| S11 | 16 | expans near frequenc\$5 same bandwidth\$2 and sampl\$5 same frequenc\$5 and low\$4pass same filter\$5 and cut\$4off same frequenc\$5 and tim\$4 and waveform\$4 and peak\$4 and weigh\$4 and differen\$5 | US-PGPUB; USPAT | OR | OFF | 2004/07/02 13:52 |
| S12 | 16 | expans near frequenc\$5 same bandwidth\$2 and sampl\$5 same frequenc\$5 and low\$4pass same filter\$5 and cut\$4off same frequenc\$5 and tim\$4 and waveform\$4 and peak\$4 and weigh\$4 and differen\$5 and conver\$5 | US-PGPUB; USPAT | OR | OFF | 2004/07/02 13:54 |
| S13 | 11 | expans near frequenc\$5 same bandwidth\$2 and conver\$5 same sampl\$5 near frequenc\$5 | US-PGPUB; USPAT | OR | OFF | 2004/07/02 13:54 |
| S14 | 6 | expans near frequenc\$5 same bandwidth\$2 and conver\$5 same sampl\$5 near frequenc\$5 and digit\$5 same audi\$5 near signal\$4 | US-PGPUB; USPAT | OR | OFF | 2004/07/02 16:12 |
| S15 | 7 | expans near frequenc\$5 same bandwidth\$2 and sampl\$5 near frequenc\$5 and digit\$5 same audi\$5 near signal\$4 | US-PGPUB; USPAT | OR | OFF | 2004/07/02 16:13 |
| S16 | 26 | expans near frequenc\$5 and sampl\$5 near frequenc\$5 and digit\$5 same audi\$5 near signal\$4 | US-PGPUB; USPAT | OR | OFF | 2004/07/02 18:42 |
| S17 | 19 | (expans near frequenc\$5 and sampl\$5 near frequenc\$5 and digit\$5 same audi\$5 near signal\$4) not (expans near frequenc\$5 same bandwidth\$2 and sampl\$5 near frequenc\$5 and digit\$5 same audi\$5 near signal\$4) | US-PGPUB; USPAT | OR | OFF | 2004/07/02 16:14 |

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|-----|------|--|-----------------|----|-----|------------------|
| S18 | 76 | expans\$ near frequenc\$5 same bandwidth\$2 and sampl\$5 same frequenc\$5 | US-PGPUB; USPAT | OR | OFF | 2004/07/02 16:28 |
| S19 | 12 | expans\$ near frequenc\$5 same bandwidth\$2 and sampl\$5 same frequenc\$5 and "704"/\$.ccls. | US-PGPUB; USPAT | OR | OFF | 2004/07/02 16:32 |
| S20 | 2517 | low\$4pass\$4 near filter\$6 and digit\$4 same audi\$4 near signal\$4 | US-PGPUB; USPAT | OR | OFF | 2004/07/02 16:33 |
| S21 | 558 | low\$4pass\$4 near filter\$6 and digit\$4 same audi\$4 near signal\$4 and cut\$4off near frequenc\$5 | US-PGPUB; USPAT | OR | OFF | 2004/07/02 16:33 |
| S22 | 154 | low\$4pass\$4 near filter\$6 and digit\$4 same audi\$4 near signal\$4 and cut\$4off near frequenc\$5 and wave\$4form\$4 and peak\$4 | US-PGPUB; USPAT | OR | OFF | 2004/07/02 16:34 |
| S23 | 82 | low\$4pass\$4 near filter\$6 and digit\$4 same audi\$4 near signal\$4 and cut\$4off near frequenc\$5 and wave\$4form\$4 and peak\$4 and weigh\$5 | US-PGPUB; USPAT | OR | OFF | 2004/07/02 16:34 |
| S24 | 15 | (low\$4pass\$4 near filter\$6 and digit\$4 same audi\$4 near signal\$4 and cut\$4off near frequenc\$5 and wave\$4form\$4 and peak\$4 and weigh\$5 and "704"/\$.ccls.) not (expans\$ near frequenc\$5 same bandwidth\$2 and sampl\$5 same frequenc\$5 and "704"/\$.ccls.) | US-PGPUB; USPAT | OR | OFF | 2004/07/02 16:35 |
| S25 | 149 | expans\$ near frequenc\$5 same bandwidth\$2 | US-PGPUB; USPAT | OR | OFF | 2004/07/02 16:37 |
| S26 | 16 | expans\$ near frequenc\$5 same bandwidth\$2 and "704"/\$.ccls. | US-PGPUB; USPAT | OR | OFF | 2004/07/02 17:00 |
| S27 | 133 | (expans\$ near frequenc\$5 same bandwidth\$2) not (expans\$ near frequenc\$5 same bandwidth\$2 and "704"/\$.ccls.) | US-PGPUB; USPAT | OR | OFF | 2004/07/02 17:09 |
| S28 | 7067 | expans\$ same frequenc\$5 and sampl\$4 same frequenc\$5 | US-PGPUB; USPAT | OR | OFF | 2004/07/02 17:11 |
| S29 | 726 | expans\$ same frequenc\$5 and sampl\$4 same frequenc\$5 and digit\$5 same audi\$5 near signal\$4 | US-PGPUB; USPAT | OR | OFF | 2004/07/02 17:11 |
| S30 | 332 | expans\$ same frequenc\$5 and bandwidth\$4 and sampl\$4 same frequenc\$5 and digit\$5 same audi\$5 near signal\$4 | US-PGPUB; USPAT | OR | OFF | 2004/07/02 17:12 |
| S31 | 142 | expans\$ same frequenc\$5 and bandwidth\$4 and sampl\$4 same frequenc\$5 and digit\$5 same audi\$5 near signal\$4 and low\$4pass\$4 near filter\$4 | US-PGPUB; USPAT | OR | OFF | 2004/07/02 17:12 |

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| S32 | 38 | expans\$5 same frequen\$5 and bandwidth\$4 and sampl\$4 same frequen\$5 and digit\$5 same audi\$5 near signal\$4 and low\$4pass\$4 near filter\$4 and "704"/\$.ccls. | US-PGPUB; USPAT | OR | OFF | 2004/07/02 17:13 |
| S33 | 26 | expans\$5 same frequen\$5 and bandwidth\$4 and sampl\$4 same frequen\$5 and digit\$5 same audi\$5 near signal\$4 and low\$4pass\$4 near filter\$4 and weigh\$5 and "704"/\$.ccls. | US-PGPUB; USPAT | OR | OFF | 2004/07/02 17:13 |
| S34 | 16 | low\$4pass\$4 near filter\$6 and digit\$4 same audi\$4 near signal\$4 and cut\$4off near frequenc\$5 and wave\$4form\$4 and peak\$4 and weigh\$5 and "704"/\$.ccls. | US-PGPUB; USPAT | OR | OFF | 2004/07/02 18:40 |
| S35 | 21 | low\$4pass\$4 near filter\$6 and audi\$4 near signal\$4 and cut\$4off near frequenc\$5 and wave\$4form\$4 and peak\$4 and weigh\$5 and "704"/\$.ccls. | US-PGPUB; USPAT | OR | OFF | 2004/07/02 18:40 |
| S36 | 5 | (low\$4pass\$4 near filter\$6 and audi\$4 near signal\$4 and cut\$4off near frequenc\$5 and wave\$4form\$4 and peak\$4 and weigh\$5 and "704"/\$.ccls.) not (low\$4pass\$4 near filter\$6 and digit\$4 same audi\$4 near signal\$4 and cut\$4off near frequenc\$5 and wave\$4form\$4 and peak\$4 and weigh\$5 and "704"/\$.ccls.) | US-PGPUB; USPAT | OR | OFF | 2004/07/02 18:40 |
| S37 | 48 | expans\$5 near frequenc\$5 and sampl\$5 near frequenc\$5 and audi\$5 near signal\$4 | US-PGPUB; USPAT | OR | OFF | 2004/07/02 18:42 |
| S38 | 22 | (expans\$5 near frequenc\$5 and sampl\$5 near frequenc\$5 and audi\$5 near signal\$4) not (expans\$5 near frequenc\$5 and sampl\$5 near frequenc\$5 and digit\$5 same audi\$5 near signal\$4) | US-PGPUB; USPAT | OR | OFF | 2004/07/02 18:44 |
| S39 | 7 | (expans\$5 near frequenc\$5 and sampl\$5 near frequenc\$5 and audi\$5 near signal\$4) not (expans\$5 near frequenc\$5 and sampl\$5 near frequenc\$5 and digit\$5 same audi\$5 near signal\$4) and "704"/\$.ccls. | US-PGPUB; USPAT | OR | OFF | 2004/07/02 18:48 |
| S40 | 1098 | frequenc\$4 near expans\$6 | US-PGPUB; USPAT | OR | OFF | 2004/07/02 18:48 |

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| S41 | 58 | frequenc\$4 near expans\$6 and "704"/\$.ccls. | US-PGPUB; USPAT | OR | OFF | 2004/07/02 18:48 |
| S42 | 100884 | differen\$5 same (current\$4 or present\$4) and (past or histor\$4) | US-PGPUB; USPAT | OR | OFF | 2004/07/06 13:08 |
| S43 | 41015 | differen\$5 same (current\$4 or present\$4) and (past or histor\$4) and weigh\$5 | US-PGPUB; USPAT | OR | OFF | 2004/07/06 13:08 |
| S44 | 1718 | differen\$5 same (current\$4 or present\$4) and (past or histor\$4) and weigh\$5 and low\$4pass same filter\$6 | US-PGPUB; USPAT | OR | OFF | 2004/07/06 13:09 |
| S45 | 19 | differen\$5 same (current\$4 or present\$4) and (past or histor\$4) and weigh\$5 and low\$4pass same filter\$6 and polar\$6 same gradien\$4 | US-PGPUB; USPAT | OR | OFF | 2004/07/06 13:18 |
| S46 | 9 | differen\$5 same (current\$4 or present\$4) and (past or histor\$4) and weigh\$5 and low\$4pass same filter\$6 and polar\$6 same gradien\$4 and wave\$3form\$4 | US-PGPUB; USPAT | OR | OFF | 2004/07/06 13:11 |
| S47 | 10 | (differen\$5 same (current\$4 or present\$4) and (past or histor\$4) and weigh\$5 and low\$4pass same filter\$6 and polar\$6 same gradien\$4) not (differen\$5 same (current\$4 or present\$4) and (past or histor\$4) and weigh\$5 and low\$4pass same filter\$6 and polar\$6 same gradien\$4 and wave\$3form\$4) | US-PGPUB; USPAT | OR | OFF | 2004/07/06 13:15 |
| S48 | 8 | differen\$5 same (calculat\$6 or comput\$7) and ((current\$4 or present\$4) same (past or histor\$4)) near (data or information) and weigh\$5 same differen\$5 and low\$4pass same filter\$6 and output\$5 | US-PGPUB; USPAT | OR | OFF | 2004/07/06 14:00 |
| S49 | 28 | differen\$5 same (calculat\$6 or comput\$7) and ((current\$4 or present\$4) same (past or histor\$4)) near (data or information) and low\$4pass same filter\$6 | US-PGPUB; USPAT | OR | OFF | 2004/07/06 14:12 |
| S50 | 24 | differen\$5 near (calculat\$6 or comput\$7) same ((current\$4 or present\$4) and (past or histor\$4)) near (data or information) and low\$4pass same filter\$6 | US-PGPUB; USPAT | OR | OFF | 2004/07/06 14:13 |

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| S51 | 17 | differen\$5 near (calculat\$6 or comput\$7) same ((current\$4 or present\$4) and (past or histor\$4)) and low\$4pass same filter\$6 | US-PGPUB; USPAT | OR | OFF | 2004/07/06 14:15 |
| S52 | 6 | differen\$5 near (calculat\$6 or comput\$7) same ((current\$4 or present\$4) and (previous\$4 or past or histor\$4)) and low\$4pass same filter\$6 and "704"/\$.ccls. | US-PGPUB; USPAT | OR | OFF | 2004/07/06 14:19 |
| S53 | 152 | differen\$5 near (calculat\$6 or comput\$7) same ((current\$4 or present\$4) and (previous\$4 or past or histor\$4)) and low\$4pass same filter\$6 | US-PGPUB; USPAT | OR | OFF | 2004/07/06 14:21 |
| S54 | 11 | (US-6098046-\$ or US-5920842-\$ or US-5828994-\$ or US-5799276-\$ or US-5596677-\$ or US-6504838-\$ or US-6091777-\$ or US-5740283-\$ or US-5535244-\$ or US-4633720-\$).did. or (US-20020029148-\$).did. | US-PGPUB; USPAT | OR | OFF | 2004/07/06 15:20 |
| S55 | 9 | ((US-6098046-\$ or US-5920842-\$ or US-5828994-\$ or US-5799276-\$ or US-5596677-\$ or US-6504838-\$ or US-6091777-\$ or US-5740283-\$ or US-5535244-\$ or US-4633720-\$).did. or (US-20020029148-\$).did.) and (differen\$5 near (calculat\$6 or comput\$7) same ((current\$4 or present\$4) and (previous\$4 or past or histor\$4)) and low\$4pass same filter\$6) | US-PGPUB; USPAT | OR | OFF | 2004/07/06 15:20 |
| S56 | 5 | ((US-6098046-\$ or US-5920842-\$ or US-5828994-\$ or US-5799276-\$ or US-5596677-\$ or US-6504838-\$ or US-6091777-\$ or US-5740283-\$ or US-5535244-\$ or US-4633720-\$).did. or (US-20020029148-\$).did.) and (differen\$5 near (calculat\$6 or comput\$7) same ((current\$4 or present\$4) and (previous\$4 or past or histor\$4)) and low\$4pass same filter\$6) and weigh\$5 | US-PGPUB; USPAT | OR | OFF | 2004/07/06 15:46 |
| S57 | 1 | adjacent same wave\$4form\$4 near peak\$4 and polarit\$5 near gradien\$4 | US-PGPUB; USPAT | OR | OFF | 2004/07/06 19:18 |
| S58 | 250 | polarit\$5 near gradien\$4 | US-PGPUB; USPAT | OR | OFF | 2004/07/06 15:48 |
| S59 | 1 | polarit\$5 near gradien\$4 and adjacent and "704"/\$.ccls. | US-PGPUB; USPAT | OR | OFF | 2004/07/06 15:48 |

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| S60 | 93 | polarit\$5 near gradien\$4 and adjacent | US-PGPUB; USPAT | OR | OFF | 2004/07/06 16:05 |
| S61 | 39 | polarit\$5 near gradien\$4 and adjacent and wave\$4form\$4 | US-PGPUB; USPAT | OR | OFF | 2004/07/06 16:06 |
| S62 | 20 | polarit\$5 near gradien\$4 and adjacent and wave\$4form\$4 same differ\$5 | US-PGPUB; USPAT | OR | OFF | 2004/07/06 16:08 |
| S63 | 47 | add\$6 same weigh\$ near differenc\$5 and low\$4pass\$4 same filter\$6 | US-PGPUB; USPAT | OR | OFF | 2004/07/06 19:24 |
| S64 | 5 | add\$6 same weigh\$ near differenc\$5 and low\$4pass\$4 same filter\$6 and "704"/\$.ccls. | US-PGPUB; USPAT | OR | OFF | 2004/07/06 19:22 |
| S65 | 7 | ((add\$6 or sum\$7) same weigh\$ near differenc\$5 and low\$4pass\$4 same filter\$6 and "704"/\$.ccls. | US-PGPUB; USPAT | OR | OFF | 2004/07/06 19:22 |
| S66 | 2 | ((add\$6 or sum\$7) same weigh\$ near differenc\$5 and low\$4pass\$4 same filter\$6 and "704"/\$.ccls.) not (add\$6 same weigh\$ near differenc\$5 and low\$4pass\$4 same filter\$6 and "704"/\$.ccls.) | US-PGPUB; USPAT | OR | OFF | 2004/07/06 19:23 |
| S67 | 81 | ((add\$6 or sum\$7) same weigh\$ near differenc\$5 and low\$4pass\$4 same filter\$6 | US-PGPUB; USPAT | OR | OFF | 2004/07/06 19:31 |
| S68 | 76 | ((add\$6 or sum\$7) same weigh\$ near differenc\$5 and low\$4pass\$4 same filter\$6) not (add\$6 same weigh\$ near differenc\$5 and low\$4pass\$4 same filter\$6 and "704"/\$.ccls.) | US-PGPUB; USPAT | OR | OFF | 2004/07/06 19:25 |
| S69 | 74 | ((((add\$6 or sum\$7) same weigh\$ near differenc\$5 and low\$4pass\$4 same filter\$6) not (add\$6 same weigh\$ near differenc\$5 and low\$4pass\$4 same filter\$6 and "704"/\$.ccls.)) not ((add\$6 or sum\$7) same weigh\$ near differenc\$5 and low\$4pass\$4 same filter\$6 and "704"/\$.ccls.) | US-PGPUB; USPAT | OR | OFF | 2004/07/06 19:25 |

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| S70 | 74 | (((((add\$6 or sum\$7) same weigh\$ near differenc\$5 and low\$4pass\$4 same filter\$6) not (add\$6 same weigh\$ near differenc\$5 and low\$4pass\$4 same filter\$6 and "704"/\$.ccls.)) not ((add\$6 or sum\$7) same weigh\$ near differenc\$5 and low\$4pass\$4 same filter\$6 and "704"/\$.ccls.)) not (((add\$6 or sum\$7) same weigh\$ near differenc\$5 and low\$4pass\$4 same filter\$6 and "704"/\$.ccls.) not (add\$6 same weigh\$ near differenc\$5 and low\$4pass\$4 same filter\$6 and "704"/\$.ccls.)) | US-PGPUB; USPAT | OR | OFF | 2004/07/06 19:25 |
| S71 | 209 | (add\$6 or sum\$7) near weigh\$ same low\$4pass\$4 | US-PGPUB; USPAT | OR | OFF | 2004/07/06 19:31 |
| S72 | 204 | ((add\$6 or sum\$7) near weigh\$ same low\$4pass\$4) not (((((add\$6 or sum\$7) same weigh\$ near differenc\$5 and low\$4pass\$4 same filter\$6) not (add\$6 same weigh\$ near differenc\$5 and low\$4pass\$4 same filter\$6 and "704"/\$.ccls.)) not ((add\$6 or sum\$7) same weigh\$ near differenc\$5 and low\$4pass\$4 same filter\$6 and "704"/\$.ccls.)) not (((add\$6 or sum\$7) same weigh\$ near differenc\$5 and low\$4pass\$4 same filter\$6 and "704"/\$.ccls.) not (add\$6 same weigh\$ near differenc\$5 and low\$4pass\$4 same filter\$6 and "704"/\$.ccls.))) | US-PGPUB; USPAT | OR | OFF | 2004/07/06 19:32 |

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|-----|--------|---|--------------------|----|-----|------------------|
| S73 | 3 | ((add\$6 or sum\$7) near weigh\$ same low\$4pass\$4) not (((((add\$6 or sum\$7) same weigh\$ near differenc\$5 and low\$4pass\$4 same filter\$6) not (add\$6 same weigh\$ near differenc\$5 and low\$4pass\$4 same filter\$6 and "704"/\$.ccls.)) not ((add\$6 or sum\$7) same weigh\$ near differenc\$5 and low\$4pass\$4 same filter\$6 and "704"/\$.ccls.)) not (((add\$6 or sum\$7) same weigh\$ near differenc\$5 and low\$4pass\$4 same filter\$6 and "704"/\$.ccls.) not (add\$6 same weigh\$ near differenc\$5 and low\$4pass\$4 same filter\$6 and "704"/\$.ccls.))) and "704"/\$.ccls. | US-PGPUB; USPAT | OR | OFF | 2004/07/06 19:31 |
| S74 | 669676 | ((add\$6 or sum\$7) near weigh\$ same low\$4pass\$4) not (((((add\$6 or sum\$7) same weigh\$ near differenc\$5 and low\$4pass\$4 same filter\$6) not (add\$6 same weigh\$ near differenc\$5 and low\$4pass\$4 same filter\$6 and "704"/\$.ccls.)) not ((add\$6 or sum\$7) same weigh\$ near differenc\$5 and low\$4pass\$4 same filter\$6 and "704"/\$.ccls.)) not (((add\$6 or sum\$7) same weigh\$ near differenc\$5 and low\$4pass\$4 same filter\$6 and "704"/\$.ccls.) not (add\$6 same weigh\$ near differenc\$5 and low\$4pass\$4 same filter\$6 and "704"/\$.ccls.))) and filter\$6 and differenc\$5 | US-PGPUB; USPAT | OR | OFF | 2004/07/06 19:33 |

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| S75 | 198 | ((add\$6 or sum\$7) near weigh\$ same low\$4pass\$4) not (((((add\$6 or sum\$7) same weigh\$ near differenc\$5 and low\$4pass\$4 same filter\$6) not (add\$6 same weigh\$ near differenc\$5 and low\$4pass\$4 same filter\$6 and "704"/\$.ccls.)) not ((add\$6 or sum\$7) same weigh\$ near differenc\$5 and low\$4pass\$4 same filter\$6 and "704"/\$.ccls.)) not (((add\$6 or sum\$7) same weigh\$ near differenc\$5 and low\$4pass\$4 same filter\$6 and "704"/\$.ccls.)) not (add\$6 same weigh\$ near differenc\$5 and low\$4pass\$4 same filter\$6 and "704"/\$.ccls.))) and filter\$6 and differen\$5 | US-PGPUB; USPAT | OR | OFF | 2004/07/06 19:33 |
| S76 | 15 | ((add\$6 or sum\$7) near weigh\$ same low\$4pass\$4) not (((((add\$6 or sum\$7) same weigh\$ near differenc\$5 and low\$4pass\$4 same filter\$6) not (add\$6 same weigh\$ near differenc\$5 and low\$4pass\$4 same filter\$6 and "704"/\$.ccls.)) not ((add\$6 or sum\$7) same weigh\$ near differenc\$5 and low\$4pass\$4 same filter\$6 and "704"/\$.ccls.)) not (((add\$6 or sum\$7) same weigh\$ near differenc\$5 and low\$4pass\$4 same filter\$6 and "704"/\$.ccls.)) not (add\$6 same weigh\$ near differenc\$5 and low\$4pass\$4 same filter\$6 and "704"/\$.ccls.))) and filter\$6 and differen\$5 and audi\$5 near signal\$4 | US-PGPUB; USPAT | OR | OFF | 2004/07/06 19:33 |
| S77 | 1 | "5893068".pn. | US-PGPUB; USPAT | OR | OFF | 2004/07/06 19:55 |
| S78 | 1 | "5828994".pn. | US-PGPUB; USPAT | OR | OFF | 2004/07/06 19:55 |
| S79 | 1 | "3795876".pn. | US-PGPUB; USPAT | OR | OFF | 2004/07/06 19:55 |
| S80 | 1 | "3795876".pn. | US-PGPUB; USPAT | OR | OFF | 2005/06/16 14:31 |
| S81 | 211 | (tim\$4 interval\$4) with ((adjacent\$4 besid\$4 clos\$4 nearby\$4) near wave\$4form\$4) | US-PGPUB; USPAT | OR | OFF | 2005/06/16 14:50 |

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| S82 | 2 | (tim\$4 interval\$4) with ((adjacent\$4 beside\$4 clos\$4 nearby\$4) near wave\$4form\$4) same low\$4pass\$7 | US-PGPUB; USPAT | OR | OFF | 2005/06/16 14:52 |
| S83 | 2231602 | (tim\$4 interval\$4) with ((adjacent\$4 beside\$4 clos\$4 nearby\$4) near wave\$4form\$4) s | US-PGPUB; USPAT | OR | OFF | 2005/06/16 14:53 |
| S84 | 211 | (tim\$4 interval\$4) with ((adjacent\$4 beside\$4 clos\$4 nearby\$4) near wave\$4form\$4) | US-PGPUB; USPAT | OR | OFF | 2005/06/16 14:53 |
| S85 | 88 | (tim\$4 interval\$4) with ((adjacent\$4 beside\$4 clos\$4 nearby\$4) near wave\$4form\$4) and (digit\$5 audi\$4 speech\$4 voic\$4) near signal\$4 | US-PGPUB; USPAT | OR | OFF | 2005/06/16 14:55 |
| S86 | 3 | (tim\$4 interval\$4) with ((adjacent\$4 beside\$4 clos\$4 nearby\$4) near wave\$4form\$4) same (sampl\$4 near frequenc\$4) | US-PGPUB; USPAT | OR | OFF | 2005/06/16 15:00 |
| S87 | 8 | (tim\$4 interval\$4) with ((adjacent\$4 beside\$4 clos\$4 nearby\$4) near wave\$4form\$4) same ((sampl\$4 conver\$4) with frequenc\$4) | US-PGPUB; USPAT | OR | OFF | 2005/06/16 15:00 |
| S88 | 8 | (tim\$4 interval\$4) with ((adjacent\$4 beside\$4 clos\$4 nearby\$4) near wave\$4form\$4) same ((sampl\$4 conver\$5) with frequenc\$4) | US-PGPUB; USPAT | OR | OFF | 2005/06/16 15:05 |
| S89 | 46 | (tim\$4 interval\$4) with ((adjacent\$4 beside\$4 clos\$4 nearby\$4) near wave\$4form\$4) and tim\$4 with ((sampl\$4 conver\$5) with frequenc\$4) | US-PGPUB; USPAT | OR | OFF | 2005/06/16 15:05 |
| S90 | 12 | (tim\$4 interval\$4) with ((adjacent\$4 beside\$4 clos\$4 nearby\$4) near wave\$4form\$4) and tim\$4 near interval\$4 with ((sampl\$4 conver\$5) with frequenc\$4) | US-PGPUB; USPAT | OR | OFF | 2005/06/16 15:08 |
| S91 | 51 | (tim\$4 interval\$4) with ((adjacent\$4 beside\$4 clos\$4 nearby\$4) near wave\$4form\$4) and (tim\$4 interval\$4) with ((sampl\$4 conver\$5) with frequenc\$4) | US-PGPUB; USPAT | OR | OFF | 2005/06/17 10:06 |
| S92 | 6 | (US-6167375-\$ or US-5018428-\$ or US-4922465-\$ or US-4658369-\$ or US-4521803-\$ or US-4351219-\$).did. | USPAT | OR | OFF | 2005/06/17 08:39 |

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|-----|----|--|--------------------|----|-----|------------------|
| S93 | 6 | ((US-6167375-\$ or US-5018428-\$ or US-4922465-\$ or US-4658369-\$ or US-4521803-\$ or US-4351219-\$).did.) and (tim\$4 interval\$4) with ((adjacent\$4 beside\$4 close\$4 nearby\$4) near wave\$4form\$4) and (tim\$4 interval\$4) with ((sampl\$4 conver\$5) with frequenc\$4) | USPAT | OR | OFF | 2005/06/17 10:02 |
| S94 | 4 | ((US-6167375-\$ or US-5018428-\$ or US-4922465-\$ or US-4658369-\$ or US-4521803-\$ or US-4351219-\$).did.) and (tim\$4 interval\$4) with ((adjacent\$4 beside\$4 close\$4 nearby\$4) near wave\$4form\$4) and (tim\$4 interval\$4) with ((sampl\$4 conver\$5) with frequenc\$4) and (polar\$4 gradien\$4) | USPAT | OR | OFF | 2005/06/17 08:43 |
| S95 | 3 | ((US-6167375-\$ or US-5018428-\$ or US-4922465-\$ or US-4658369-\$ or US-4521803-\$ or US-4351219-\$).did.) and (tim\$4 interval\$4) with ((adjacent\$4 beside\$4 close\$4 nearby\$4) near wave\$4form\$4) and (tim\$4 interval\$4) with ((sampl\$4 conver\$5) with frequenc\$4) and (polar\$4 gradien\$4) and (low\$4pass\$4) | USPAT | OR | OFF | 2005/06/17 08:43 |
| S96 | 4 | ((US-6167375-\$ or US-5018428-\$ or US-4922465-\$ or US-4658369-\$ or US-4521803-\$ or US-4351219-\$).did.) and (tim\$4 interval\$4) with ((adjacent\$4 beside\$4 close\$4 nearby\$4) near wave\$4form\$4) and (tim\$4 interval\$4) with ((sampl\$4 conver\$5) with frequenc\$4) and peak\$4 | USPAT | OR | OFF | 2005/06/17 10:02 |
| S97 | 79 | (tim\$4 interval\$4) with ((adjacent\$4 beside\$4 close\$4 nearby\$4) near peak\$4) and (tim\$4 interval\$4) with ((sampl\$4 conver\$5) with frequenc\$4) | US-PGPUB; USPAT | OR | OFF | 2005/06/17 10:06 |
| S98 | 18 | ((tim\$4 interval\$4) with ((adjacent\$4 beside\$4 close\$4 nearby\$4) near peak\$4) same wave\$4form\$4) and (tim\$4 interval\$4) with ((sampl\$4 conver\$5) with frequenc\$4) | US-PGPUB; USPAT | OR | OFF | 2005/06/17 10:07 |
| S99 | 3 | (US-6717984-\$ or US-6570722-\$ or US-5812970-\$).did. | USPAT | OR | OFF | 2005/06/17 10:34 |

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|----------|----|--|-------|----|-----|------------------|
| S10 0 | 3 | ((US-6717984-\$ or US-6570722-\$ or US-5812970-\$).did.) and ((tim\$4 interval\$4) with ((adjacent\$4 beside\$4 close\$4 nearby\$4) near peak\$4) same wave\$4form\$4) and (tim\$4 interval\$4) with ((sampl\$4 conver\$5) with frequenc\$4) | USPAT | OR | OFF | 2005/06/17 10:35 |
| S10 1 | 3 | ((US-6717984-\$ or US-6570722-\$ or US-5812970-\$).did.) and ((tim\$4 interval\$4) with ((adjacent\$4 beside\$4 close\$4 nearby\$4) near peak\$4) same wave\$4form\$4) and (tim\$4 interval\$4) with ((sampl\$4 conver\$5) with frequenc\$4) and (gradient\$4 polar\$6 sign\$4) | USPAT | OR | OFF | 2005/06/17 10:36 |
| S10 2 | 2 | ((US-6717984-\$ or US-6570722-\$ or US-5812970-\$).did.) and ((tim\$4 interval\$4) with ((adjacent\$4 beside\$4 close\$4 nearby\$4) near peak\$4) same wave\$4form\$4) and (tim\$4 interval\$4) with ((sampl\$4 conver\$5) with frequenc\$4) and (gradient\$4 polar\$6 signs sign) | USPAT | OR | OFF | 2005/06/17 10:41 |
| S10 3 | 10 | ((tim\$4 interval\$4) with ((adjacent\$4 beside\$4 close\$4 nearby\$4) near peak\$4) same wave\$4form\$4) and (tim\$4 interval\$4) with ((sampl\$4 conver\$5) with (period frequenc\$4)) and (gradient\$4 polar\$6 signs sign) | USPAT | OR | OFF | 2005/06/17 10:41 |